



**CBN Isolate**  
Sample Matrix:  
CBD/HEMP  
Derivative Products  
(Ingestion)

License No. 800025015  
FL License # CMTL-0003  
CLIA No. 10D1094068

# Certificate of Analysis

Compliance Test

Batch # 211013-11  
Batch Date: 2021-06-09  
Extracted From: Industrial Hemp

Sampling Method: MSP 7.3.1  
Test Reg State: Florida

Order Date: 2021-10-15  
Sample: AACB489

Sampling Date: 2021-10-18  
Lab Batch Date: 2021-10-18  
Completion Date: 2021-10-25

Initial Gross Weight: 28.564 g



Product Image

Potency  
Tested

Heavy Metals  
Passed

Pesticides  
Passed

Residual  
Solvents  
Passed

Pathogenic  
Microbiology  
Passed

Microbiology  
Petrifilm  
Passed

## Potency - 20

Specimen Weight: 32.410 mg

| Analyte      | Dilution (1:n) | LOD (%)  | LOQ (%) | Result (mg/g) | (%)    |
|--------------|----------------|----------|---------|---------------|--------|
| CBN          | 10.000         | 0.000014 | 0.002   | 983.682       | 98.368 |
| Delta-8 THC  | 10.000         | 0.00004  | 0.002   | 9.692         | 0.969  |
| CBGA         | 10.000         | 0.00008  | 0.002   | 5.168         | 0.517  |
| CBDVA        | 10.000         | 0.000014 | 0.002   | 0.936         | 0.094  |
| THCV         | 10.000         | 0.000007 | 0.002   | <LOQ          | <LOQ   |
| CBD          | 10.000         | 0.000054 | 0.002   | <LOQ          | <LOQ   |
| CBDA         | 10.000         | 0.00001  | 0.002   | <LOQ          | <LOQ   |
| THCVA        | 10.000         | 0.000047 | 0.002   | <LOQ          | <LOQ   |
| Exo-THC      | 10.000         | 0.00023  | 0.002   | <LOQ          | <LOQ   |
| THCA-A       | 10.000         | 0.000032 | 0.002   | <LOQ          | <LOQ   |
| CBG          | 10.000         | 0.000248 | 0.002   | <LOQ          | <LOQ   |
| Delta-9 THC  | 10.000         | 0.000013 | 0.002   | <LOQ          | <LOQ   |
| CBCA         | 10.000         | 0.000107 | 0.002   | <LOQ          | <LOQ   |
| Delta-8 THC  | 10.000         | 0.000026 | 0.002   | <LOQ          | <LOQ   |
| Delta-10 THC | 10.000         | 0.000003 | 0.002   | <LOQ          | <LOQ   |
| CBT          | 10.000         | 0.0002   | 0.002   | <LOQ          | <LOQ   |
| CBNA         | 10.000         | 0.000095 | 0.002   | <LOQ          | <LOQ   |
| CBDV         | 10.000         | 0.000065 | 0.002   | <LOQ          | <LOQ   |
| CBL          | 10.000         | 0.000035 | 0.002   | <LOQ          | <LOQ   |
| CBC          | 10.000         | 0.000018 | 0.002   | <LOQ          | <LOQ   |

## Tested (HPLC)

## Potency Summary

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| <b>Total THC</b><br>None Detected   | <b>Total CBD</b><br>None Detected    |
| <b>Total CBG</b><br>0.453%          | <b>Total CBN</b><br>98.368%          |
| <b>Other Cannabinoids</b><br>1.051% | <b>Total Cannabinoids</b><br>99.872% |

Xueli Gao  
Ph.D., DABT  
Lab Toxicologist

Aixia Sun  
D.H.Sc., M.Sc., B.Sc., MT (AAB)  
Lab Director/Principal Scientist



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## H Heavy Metals

Specimen Weight: 250.800 mg

**Passed**  
(ICP-MS)

Dilution Factor: 2.000

| Analyte      | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte      | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|--------------------|--------------|--------------|-----------|--------------------|--------------|
| Arsenic (As) | 100       | 1500               | <LOQ         | Cadmium (Cd) | 100       | 500                | <LOQ         |
| Lead (Pb)    | 100       | 500                | <LOQ         | Mercury (Hg) | 100       | 3000               | <LOQ         |

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**Pesticides FL V4** **Passed**  
(LCMS/GCMS)

Specimen Weight: 184.100 mg

Dilution Factor: 8.148

| Analyte             | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte                 | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|---------------------|-----------|--------------------|--------------|-------------------------|-----------|--------------------|--------------|
| Abamectin           | 28.23     | 300                | <LOQ         | Acephate                | 30        | 3000               | <LOQ         |
| Acequinocyl         | 48        | 2000               | <LOQ         | Acetamiprid             | 30        | 3000               | <LOQ         |
| Aldicarb            | 30        | 100                | <LOQ         | Azoxystrobin            | 10        | 3000               | <LOQ         |
| Bifenazate          | 30        | 3000               | <LOQ         | Bifenthrin              | 30        | 500                | <LOQ         |
| Boscalid            | 10        | 3000               | <LOQ         | Captan                  | 30        | 3000               | <LOQ         |
| Carbaryl            | 10        | 500                | <LOQ         | Carbofuran              | 10        | 100                | <LOQ         |
| Chlorantraniliprole | 10        | 3000               | <LOQ         | Chlordane               | 10        | 100                | <LOQ         |
| Chlorfenapyr        | 30        | 100                | <LOQ         | Chlormequat Chloride    | 10        | 3000               | <LOQ         |
| Chlorpyrifos        | 30        | 100                | <LOQ         | Clofentezine            | 30        | 500                | <LOQ         |
| Coumaphos           | 48        | 100                | <LOQ         | Cyfluthrin              | 30        | 1000               | <LOQ         |
| Cypermethrin        | 30        | 1000               | <LOQ         | Daminozide              | 30        | 100                | <LOQ         |
| Diazinon            | 30        | 200                | <LOQ         | Dichlorvos              | 30        | 100                | <LOQ         |
| Dimethoate          | 30        | 100                | <LOQ         | Dimethomorph            | 48        | 3000               | <LOQ         |
| Ethoprophos         | 30        | 100                | <LOQ         | Etofenprox              | 30        | 100                | <LOQ         |
| Etoxazole           | 30        | 1500               | <LOQ         | Fenhexamid              | 10        | 3000               | <LOQ         |
| Fenoxycarb          | 30        | 100                | <LOQ         | Fenpyroximate           | 30        | 2000               | <LOQ         |
| Fipronil            | 30        | 100                | <LOQ         | Fonicamid               | 30        | 2000               | <LOQ         |
| Fludioxonil         | 48        | 3000               | <LOQ         | Hexythiazox             | 30        | 2000               | <LOQ         |
| Imazalil            | 30        | 100                | <LOQ         | Imidacloprid            | 30        | 3000               | <LOQ         |
| Kresoxim Methyl     | 30        | 1000               | <LOQ         | Malathion               | 30        | 2000               | <LOQ         |
| Metaxyl             | 10        | 3000               | <LOQ         | Methiocarb              | 30        | 100                | <LOQ         |
| Methomyl            | 30        | 100                | <LOQ         | methyl-Parathion        | 10        | 100                | <LOQ         |
| Mevinphos           | 10        | 100                | <LOQ         | Myclobutanil            | 30        | 3000               | <LOQ         |
| Naled               | 30        | 500                | <LOQ         | Oxamyl                  | 30        | 500                | <LOQ         |
| Paclbutrazol        | 30        | 100                | <LOQ         | Pentachloronitrobenzene | 10        | 200                | <LOQ         |
| Permethrin          | 30        | 1000               | <LOQ         | Phosmet                 | 30        | 200                | <LOQ         |
| Piperonylbutoxide   | 30        | 3000               | <LOQ         | Prallethrin             | 30        | 400                | <LOQ         |
| Propiconazole       | 30        | 1000               | <LOQ         | Propoxur                | 30        | 100                | <LOQ         |
| Pyrethrins          | 30        | 1000               | <LOQ         | Pyridaben               | 30        | 3000               | <LOQ         |
| Spinetoram          | 10        | 3000               | <LOQ         | Spinosad                | 30        | 3000               | <LOQ         |
| Spiromesifen        | 30        | 3000               | <LOQ         | Spirotetramat           | 30        | 3000               | <LOQ         |
| Spiroxamine         | 30        | 100                | <LOQ         | Tebuconazole            | 30        | 1000               | <LOQ         |
| Thiacloprid         | 30        | 100                | <LOQ         | Thiamethoxam            | 30        | 1000               | <LOQ         |
| Trifloxystrobin     | 30        | 3000               | <LOQ         |                         |           |                    |              |

*Xueli Gao*  
Xueli Gao Lab Toxicologist  
Ph.D., DABT

*Aixia Sun*  
Aixia Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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**Residual Solvents - FL (CBD)** **Passed**  
(GCMS)

Specimen Weight: 122.300 mg

Dilution Factor: 50.000

| Analyte            | LOQ (ppm) | Action Level (ppm) | Result (ppm) | Analyte            | LOQ (ppm) | Action Level (ppm) | Result (ppm) |
|--------------------|-----------|--------------------|--------------|--------------------|-----------|--------------------|--------------|
| 1,1-Dichloroethene | 0.16      | 8                  | ND           | 1,2-Dichloroethane | 0.04      | 5                  | ND           |
| Acetone            | 2.08      | 5000               | ND           | Acetonitrile       | 1.17      | 410                | ND           |
| Benzene            | 0.02      | 2                  | ND           | Butanes            | 2.5       | 2000               | ND           |
| Chloroform         | 0.04      | 60                 | ND           | Ethanol            | 2.78      | 5000               | ND           |
| Ethyl Acetate      | 1.11      | 5000               | ND           | Ethyl Ether        | 1.39      | 5000               | ND           |
| Ethylene Oxide     | 0.1       | 5                  | ND           | Heptane            | 1.39      | 5000               | ND           |
| Hexane             | 1.17      | 290                | ND           | Isopropyl alcohol  | 1.39      | 500                | ND           |
| Methanol           | 0.69      | 3000               | ND           | Methylene chloride | 2.43      | 600                | ND           |
| Pentane            | 2.08      | 5000               | ND           | Propane            | 5.83      | 2100               | ND           |
| Toluene            | 2.92      | 890                | ND           | Total Xylenes      | 2.92      | 2170               | ND           |
| Trichloroethylene  | 0.49      | 80                 | ND           |                    |           |                    |              |

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**Pathogenic Microbiology - SE (MicroArray)** **Passed**  
(Micro Array)

Specimen Weight: 1048.700 mg

Dilution Factor: 1.000

| Analyte    | Result (cfu/g) | Analyte      | Result (cfu/g) |
|------------|----------------|--------------|----------------|
| Salmonella | Absence in 1g  | STEC E. Coli | Absence in 1g  |

**Microbiology (Petrifilm)** **Passed**  
(Petrifilm)

Specimen Weight: 1000.900 mg

Dilution Factor: 10000.000

| Analyte          | LOQ (cfu/g) | Action Level (cfu/g) | Result (cfu/g) | Analyte    | LOQ (cfu/g) | Action Level (cfu/g) | Result (cfu/g) |
|------------------|-------------|----------------------|----------------|------------|-------------|----------------------|----------------|
| Aerobic Bacteria | 10          | 1000                 | <10            | Yeast/Mold | 10          | 100                  | <10            |

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